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CONTROL BY USGS, NOS/NOAA
COMPILED FROM AFRIAL PHOTOGRAPHS TAKEN 1980 PROJECTION LAMBERT CONFORMAL CONIC
GRID 1000-METER UNIVERSAL TRANSVERSE MERCATOR ZONE 12
10,000-ROOT STATE GRID TICKS. UTAH, CENTRAL ZONE
UTM GRID DECLINATION 100F EAST move the projection lines as shown by dashed corner ticks

(mieters north and 59 meters east) note may be private inholdings within the boundaries of any d ral and State Reservations shown on this map

Where omitted, land lines have not been established or are and shown because of insufficient data automated type placement procedures

1000 PROVISIONAL MAP Produced from original

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field check.

manuscript drawings. Infor-

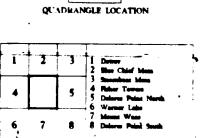
mation shown as of date of

· . .

MILES 4000 5000 7000 8000 KILOMETERS CONTOUR INTERVAL 40 FEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092





ADJOINING 7.5° QUADRANGLE NAMES

ROAD LEGEND Improved Road

Interstate Route U.S. Route State Route Michael J. Goydas 1989 FISHER VALLEY, UTAH PROVISIONAL EDITION 1985

38109-F2-TF-024

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FORMATION		ABOL	KNESS meters)	SLOGY								
PORMATION		2 > 8	THICK feet (m	ГІТНО			RELATION OF P	IAP UNITS		D E	S C R I P T I O N O F M A P U N I T S Surface Geology	
Unconsolidated deposits		Q	0-508 (0-155)		, and a	M.Y.				Qfd	Man-made fill- Mine dump debris, restricted to Polar Mesa	
Burro Canyon		Kbc	56 (17)		Holoc	0.01		Qes Qed Qmt		Qmt(w)	Talus deposits-Mostly rockfall boulders and smaller angular fragments of Wingate material lying on Chinle and Moenkopi slopes.	
										Qmt(b)	Talus deposits-Mostly rockfall boulders of Brushy Basin material lying on Salt Wash and Tidwell slopes and Navajo bench.	
	Brushy Basin Member	Jmbb	408 (124)			0.61 - x	LC:		•	Qal	Alluvium-Thickly to thinly bedded, fine to coarse sand, and minor subangular to subround gravel mixed with varying amounts of colluvial and eolian deposits (2-25 ft thick).	
HORRISON						0.73 -			l, • • •	Qac	Colluvium-Angular, poorly sorted slope deposits mixed with varying amounts of alluvial and eolian deposits.	
N FORMAT									· · · · · · · · · · · · · · · · · · ·	Qms(b)	Landslide deposit-Poorly sorted debris deposited by mass movement on slopes. Primarily involves Brushy Basin material.	
NOI	Salt Wash Member	Jasw	252 (77)		Ē					Qmt	Talus deposit-Rockfall blocks, boulders, and smaller angular fragments lying on slope immediately below the parent outcrop. Mapped only where 90% of underlying unit is covered.	
					4 7			•	•	Qas	Alluvial sand-Thickly to thinly bedded, silt and fine to coarse sand, contains laminated beds with carbonaceous debris.	
	Tidwell Member	Jmt	111 (34)		# # # #		Burro Canyon F	ormation _		Qes	Eolian sand sheet deposit-Unstratified, non-indurated fine sand and coarse silt. Mantles floor of Fisher Valley and caps dipslopes (1-30 ft thick).	
ENI	Moab Tongue	Jem	38 (12)		ບ	' }		onton of Monniego Po	,	Qed	Eolian sand dune depositUnstratified, non-indurated fine sand in dune morphology. Restricted to the edge of bluffs near Onion Creek.	
RADA SA	Slickrock Member	Je	254 (77)					Brushy Basin Member of Morrison Formation Salt Wash Member of Morrison Formation		Qabl	Upper basin-fill deposit-Massive to medium-bedded, moderately indurated sand, minor lenses of fine to medium, matrix- and clast-supported subangular	
NDSTONE							. Tidwell Member	idwell Member of Morrison Formation	o n		to subround gravel. Unit contains considerable cross-bedded fluvial sand and gravel and massive eolian sand. Angular unconformity separates upper and lower basin-fill units. Lava Creek ash occurs locally at the base of the unit.	
	Dewey Bridge Member	Jed	49 (15)		i		Maah Mambam	Tongue of Entrada S	andstone	,LC xxxxxxx	Lava Creek Ash-Very light gray to white ash fall deposit as much as 3.5 ft thick, 0.61 m.y. old (Izett, 1981)	
Nav	ajo Sandstone	Jn	264 (80)		,	1 29		er of Entrada Sandst		Qab ₂	Lower basin-fill deposit-Thickly to thinly bedded, fine to coarse sand, strongly indurated. Toward edges of basin unit is composed predominantly of subround matrix-supported gravel. Unit contains at least	
								ember of Entrada San	dstone	(B)	three buried soils, the Bishop ash, and several angular unconformities.	
	•								·	<u>B</u>	Bishop Ash-White to reddish-gray ash fall and flow deposit. Basal part of unit is massive ash fall deposit, upper part of unit consists of thinly cross-bedded ash flow deposit. Occurs locally	
Kayenta Formation		Jk	217 (66)				Navajo Sandsto				about 85 ft below the top of lower basin-fill unit (Qabl) as much as 5.5 ft thick, 0.73 m.y. old (Izett, 1981).	
							Kayenta Format Wingate Sandst		·	Kbc	Burro Canyon Formation-Pale yellowish-orange to greenish- gray, cliff-forming, cross-bedded, fine-grained	
					٠				,	Jmbb	quartzose sandstone. Brushy Basin Member of Morrison Formation-Purple reddish- gray variegated slope-forming mudstone and muddy	
Win	gate Sandstone	Ju	315 (96)		, ,		Chinle Formati	Chinle Formation Moenkopi Formation		Jinsw	siltstone with thin ledges of sandstone and conglom- eratic sandstone containing varicolored chert. Salt Wash Member of Morrison Formation-Very light gray to	
					I TE 1 B		Moenkopi Forma				grayish-pink, ledge forming, very fine- to medium- grained, cross-bedded lenticular sandstone inter- bedded with moderate reddish-brown slope-forming mudstone and siltstone.	
							Cutler Formati	o n		Jmi	Tidwell Member of Morrison Formation-Moderate reddish- brown to light gray slope forming silty mudstone interbedded with light yellowish-gray slope-forming fine-grained sandstone and light gray ledge-forming limestone.	
Ch	inle Formation	Ţс	294 (90)						† -	Jem	Moab Member or Tongue-Very light gray, rounded cliff- forming, medium-grained quartzose sandstone.	
					a lyania		Honaker Trail Paradox Format			Je	Slickrock Member of Morrison Formation-Reddish-orange to light yellowish gray, rounded cliff-forming fine- grained, cross-bedded quartzose sandstone, massive often covered with self-derived Holocene sand.	
									<i>></i>	Jed	Dewey Bridge Member of Morrison Formation-Moderate reddish- orange, slope-forming, horizontally bedded fine- grained sandstone with local light gray limestone beds. Exhibits contorted bedding which affects the lower part of the Slickrock Nember above. Formerly known as	
Moen	kopi Formation	R m	514 (157)				S Y M B O L	S		Jn	Carmel Formation (0-49 ft thick). Navajo Sandstone-Yellowish-gray, cliff-forming fine- to medium-grained, cross-bedded eolian quartzose sandstones. Forms domes and rounded knolls on	
							CONTACT Dashed where app	oroximate	· ·	Jk .	Kayenta Dipslopes. Contains local thin, hard, gray chert bearing limestone beds. Kayenta Formation-Grayish-red ledge-forming fine- to	
						·	NORMAL FAUI	····	٠.		medium-grained, irregularly bedded sandstone with subordinate intraformational conglomerate and siltstone units. Forms thick step like ledges between the more massive Navajo and Wingate Formations.	
						Dashed	where location inferred bar and ball on downti	dotted where covere	e d;	Jw	Wingate Sandstone-Moderate reddish-orange, massive cliff-forming, fine-grained, very well-sorted cross-bedded eolian quartz sandstone.	
							STRUCTURAL COI Contour interval : Drawn on top of Winga	200 feet		T _R c	Chinle Formation-Moderate reddish orange, slope-forming, very fine-grained sandstone to siltstone with a basal gray discontinous limestone bed. Exhibits local angular unconformities (294-315 ft thick).	
Cus	itler Formation	Pc	3048 (929)				Datum is mean sea	Datum is mean sea level ACE OF AXIAL SURFACE OF FOLD .		T _R m	Moenkopi Formation-Brown, slope-forming thinly laminated siltstone, very fine- to fine-grained sandstone and minor conglomerate lenses. Sandstones are ripple-marked. Exhibits local angular unconformities	
		<	\[\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				nticline	Syncline	•	Pc	(510-555 ft thick). Cutler Formation-Pale reddish-purple, fine- to medium- grained arkosic sandstone and pale reddish-brown granule- to cobble-conglomerate. Exhibits local	
	·						STRIKE AND DIP O	F BEDDING .		lPhp	angular unconformities. Honaker Trail Formation-Not exposed in Fisher Valley	
							4 _1_ Inclined			1Ррв	Paradox Formation-Mostly light gray contorted gypsum with interbeds of black silty shale, light brownish-gray	
		•		00.00	. :	· . · · · · · · · · · · · · · · · · · ·	STRIKE AND DIP O	,			sandstone and limestone.	
				000000	•		80					
		·	150	77			OTHER SYMBO	LS ,		• .	Stratigraphy, Structure, and Halokinetic History	
Par	adox Formation	1Ppg	150 (46)				Dry Hole		`.		of the Fisher Valley Quadrangle Grand County, Utah by Michael J. Goydas	

